

**MDEQ/CDM Field Report**  
**Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site**  
**Plainwell Time Critical Removal Action**  
**Date: Thursday October 25, 2012**

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**Plainwell Time Critical Removal Action**

Paul Bucholtz (MDEQ), was on site to provide input into the bank erosion issues and to provide oversight of excavation activities being conducted at the former Plainwell Mill. During oversight activities and area of erosion was identified on the north bank of the river. Based on observations, MDEQ conducted a recon of Removal Area 4A.

Removal Area 4A

Three pictures are attached which document the observed conditions.

Contaminated residuals are actively being eroded in this area as depicted below.





ALL CONTENTS INCLUDED IN THIS DAILY REPORT ARE DRAFT AND SUBJECT TO REVISION

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The area of observed bank erosion is upstream of the U.S. 131 bridge, with the relative location depicted below.





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The relative length of the affected bank appears to extend up stream, to the end of the adjacent bank that was armored with river run rock, which can be seen toward the top of the image below.

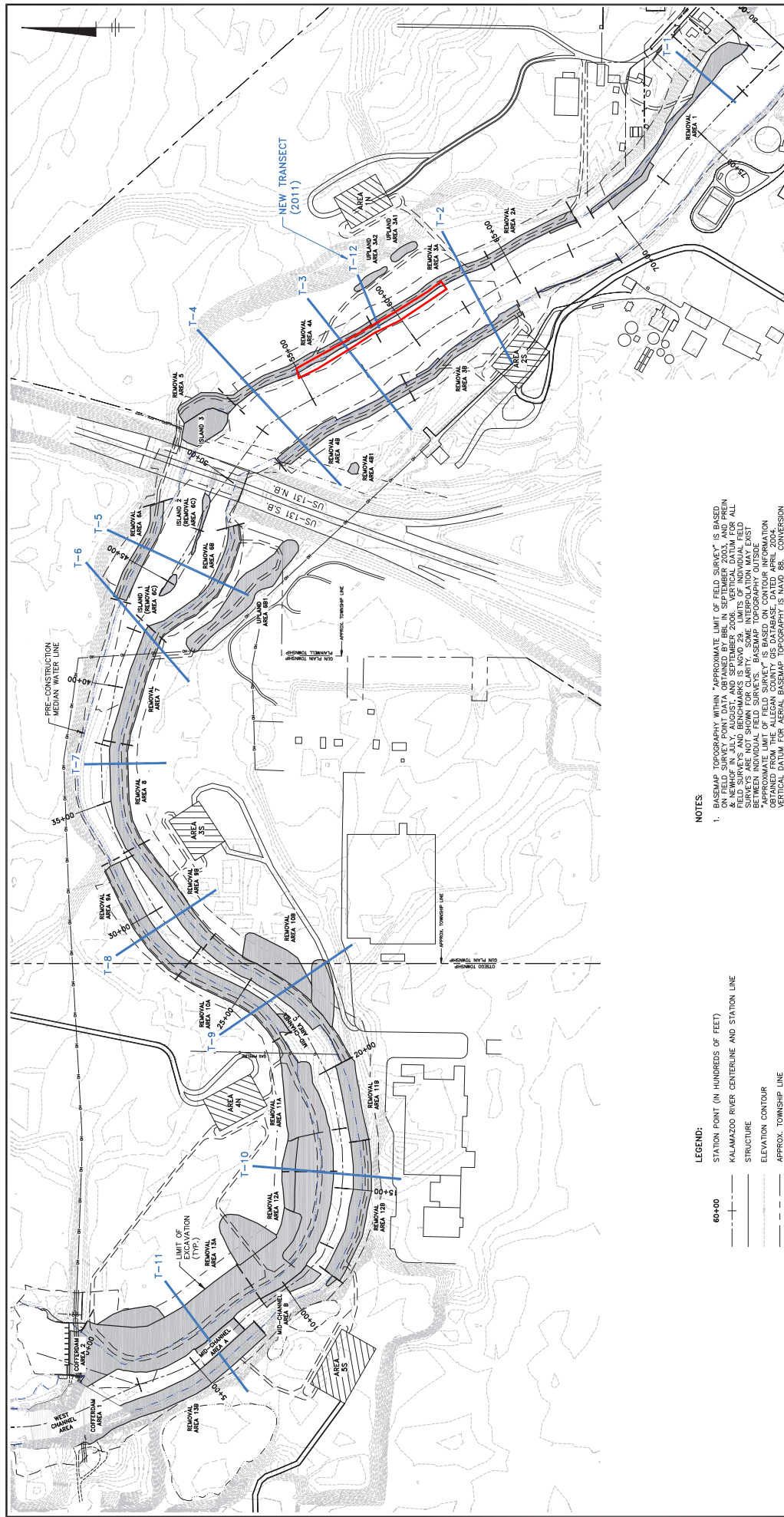


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The erosion appears to be associated with areas of exaction along the north bank upstream of U.S. 131. In these areas, removal activities resulted in excavation to an elevation below the surface water elevation. As such, excavated areas became inundated during normal flows. At the time of excavation, the shallow shelf that remained contained only a few inches of water. The majority of water flow, was held away from the bank, by the shallow shelf. (at Plainwell Dam #2, excavated areas were backfilled to mitigate the inundation of the excavated areas) At the time, it was envisioned that the shallow shelf may vegetate and stabilize. Use of choir logs on the shelf, to help divert flow, induce deposition, and encourage plant growth, was discussed but it was decided that such measures would not be implemented. It is apparent that the material that once made up the shallow shelf has eroded, water depths have increased, and higher energy flow is now present directly along the bank. Active erosion of the unexcavated, contaminated floodplain material is now evident. At the time of the site visit, specific measurements of the eroding bank were not recorded. Follow up evaluation will be necessary to define the area, and determine if other such areas of erosion exist. The general area of erosion is identified by the red polygon in the attached Figure.





GEORGIA-PACIFIC LLC  
ALLIED INDUSTRIAL PARK (CREEK)  
KALAMAZOO RIVER SUPERFUND SITE  
FORMER PLAINWELL IMPOUNDMENT AND PLAINWELL NO. 2  
DAM AREA 2012 BANK CONDITIONS MONITORING REPORT

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**FORMER PLAINWELL IMPOUNDMENT  
BANK MONITORING TRANSECT  
LOCATIONS**

**ARCADIS**

FIGURE 3



**DRAFT**

0 200' 400'

GRAPHIC SCALE

**NOTES**

1. BASEMAP TOPOGRAPHY WITHIN "APPROXIMATE LIMIT OF FIELD SURVEY" IS BASED ON FIELDPOINT POINT DATA OBTAINED BY FBI IN SEPTEMBER 2003, AND PREIN 2003 DATA. ALL ELEVATIONS ARE IN FEET. ELEVATIONS OF INDIVIDUAL FIELD SURVEYS AND BENCHMARKS IN NOV 29, SOME INTERPOLATION MAY EXIST. SURVEYS ARE NOT SHOWN FOR CLARITY. SOME INTERPOLATION MAY EXIST. "APPROXIMATE LIMIT OF FIELD SURVEY" IS BASED ON OTHER INFORMATION OBTAINED FROM THE ALLEGAN COUNTY GIS DATABASE, DATED APRIL 2004. "APPROXIMATE LIMIT OF FIELD SURVEY" IS BASED ON OTHER INFORMATION OBTAINED FROM THE ALLEGAN COUNTY GIS DATABASE, DATED APRIL 2004. BETWEEN VERTICAL DATA WITHIN VONITY OF PROJECT SITE AS TOWNSHIP [NAD 83] - 0.44 FT = [NAD 23]. ALL ELEVATIONS SHOWN ARE IN FEET. HORIZONTAL DATUM FOR ALL SURVEY INFORMATION (L.T. FIELD AND AERIAL) IS STATE PLANE, NAD 83, MICHIGAN SOUTH ZONE (215'). INTERNATIONAL FEET.
2. EXISTING FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AERIAL PHOTOGRAPHS AND FIELD SURVEYS. EXISTING FACILITIES, STRUCTURES, MATERIALS, AND TYPE OF USE MUST BE CONSIDERED APPROXIMATE ONLY.

<b>LEGEND:</b>	
<b>60+00</b>	STATION POINT (IN HUNDREDS OF FEET)
----	KALAMAZOO RIVER CENTERLINE AND STATION LINE
-----	STRUCTURE
- - - - -	ELEVATION CONTOUR
-----	APPROX. TOWNSHIP LINE
- . - . - .	PRE-CONSTRUCTION DAM-IN MEDIAN WATER LINE (APPROX.)
----	APPROX. LIMIT OF FIELD SURVEY
----	OFF-ROAD ACCESS ROUTE
----	GRAVEL ACCESS ROAD
=====	STAGING AREA
	EXCAVATION AREA
	MONITORING STATION LOCATION AND ID